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STATE OF COLORADO



1964

ANNUAL REPORT

DIVISION OF NATURAL RESOURCES

COAL MINE INSPECTION DEPARTMENT

STATE OF COLORADO



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LETTER OF TRANSMITTAL

April 1, 1965

To His Excellency
John A. Love
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department, Division of Natural Resources of Colorado, for the year ending December 31, 1964.

Respectfully,

DONALD HASKE
Chief Inspector of Coal Mines

RICHARD T. ECKLES
Coordinator, Division of Natural Resources



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PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - DONALD HASKE

Office - 318 State Services Building
Denver, Colorado 80203
Telephone - 222-9911
Ext. 2616

Home - 4561 Perry Street
Denver, Colorado 80212
Telephone - 477-9295

DISTRICT INSPECTORS - (Counties within each district)

Dist. #1 - GRANT McCONNELL - Box 167, Milner, Colorado 81644
Telephone - Stmbt. Spgs. 879-0698

(Garfield, Moffat, Rio Blanco, Routt and Weld)

Dist. #2 - J. ARTHUR HASKE - 1117 Macon St., Canon City, Colo. 81212
Telephone - 275-5635

(El Paso, Fremont, Huerfano and Las Animas)

Dist. #3 - OSCAR T. RICE - P.O. Box 640, Paonia, Colorado 81428
Telephone - 527-3981

(Delta, Gunnison, La Plata, Mesa, Montrose and Pitkin)

GENERAL OFFICE

Sr. Administrative Assistant Veda Burford
720 Jersey St., Denver, Colo. 80220
Telephone 377-4317

Sr. Account Clerk Evelyn Miller
3357 W. 36th Avenue

Clerk Stenographer Jo Anne M. Osborn
5230 Stuart Street

Intermediate Clerk-Typist Marjorie T. Sutton
1203 South High Street

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Donald Haske, Chief Inspector - Denver 80203

Robert A. Jackson, E.M., Secretary, 16 Carlile Pl., Pueblo

Gerald R. Jones, 1077 Village Lane, Steamboat Springs

John Sebben, Box 41, Sopris

Frank Bosco, 230 W. 3rd, Florence

INTRODUCTORY COMMENTS

NEW CHIEF INSPECTOR - Donald Haske, former state inspector of District #1, was certified on February 17, 1964 to the position of Chief Inspector by the State Civil Service Commission.

Mr. Haske worked in Colorado coal mines since 1926. He gained his first experience in some of the largest C.F. & I. mines near Walsenburg in Huerfano County. He went to Routt County in 1936 where he worked as Mine Foreman at the Colorado & Utah mine at Mt. Harris until 1956 when he was employed as superintendent through 1958 when the mine was abandoned. He was certified as a district inspector for the state in January, 1959, and was Acting Chief during the illness or any absence of the late Thomas Allen.

Mr. Haske was always active in safety activities, being a member of mine rescue and 1st aid winning teams of which he was also an instructor. He had extensive experience in mine fires and recovery work at various mines among which was the Wadge explosion when 34 lives were lost.

Mr. Haske also has done extensive exploration work in coal areas in the state.

COAL PRODUCTION SOARS - The continued growth of the electric utility industry accounts largely for the increase in demand for more coal throughout the nation. With the unlimited reserves of coal in Colorado, our production will continue to soar in meeting the increased consumption of coal by the steam generating plants in the state which are the largest consumers.

Colorado produced almost 18.7% more coal in 1964 than in 1963, and over 29.7% more than in 1962. This is only the beginning.

The Public Service Company of Colorado has announced their immediate plans to build their 4th generating plant near Denver, which will be the largest in the Rocky Mountain region, which alone will use about 150 tons of coal per hour at full production. The R.E.A. plant near Hayden is under construction, and it is reported that they will be in operation in 1965.

The greater amount of coal used by the steam generating plants in this state comes from strip mines which increased their tonnage by over 22% in 1964. The production from the new strip mine opened by the Seneca Coals, Ltd., owned by the Peabody Coal Company of St. Louis, Missouri, will be used by the R.E.A. plant where they have stockpiled over 110,000 tons of coal to date. This mine is located near the old Wadge Mine and the coal is trucked about six miles to the site of the plant.

The steel mills of Colorado and Utah are second largest consumers of Colorado coal. The C.F. & I. mills in Pueblo used the total production from their Allen Mine, and the U.S. Steel mills in Utah used the total output from their Somerset Mine in Gunnison County and the mines in Pitkin County.

SOMERSET MINE REHABILITATED - The Somerset Mine in Gunnison County has operated continuously since 1903 when it was opened by the Utah Fuel Company with three subsequent changes in operators. The U.S. Steel Corporation purchased this mine in 1955, but have only actively operated it since January 1, 1961.

Extensive development started at once to improve and modernize installation and methods of ventilation. The haulage system, face equipment and roof control. Surface structures were also rebuilt or replaced, and the mine is now completely rehabilitated for safe and efficient operation.

CAMEO MINE CHANGES OWNERSHIP - The Cameo Mine in Mesa County has operated since 1899. This mine was purchased by the Juanita Coal and Coke Company of Bowie, Colorado on April 1, 1964, from the Kerr Coal Company who operated it since 1934. The coal produced from this mine is transported directly from the portal to the Public Service power plant by means of conveyors, for about 1,200 feet.

MAP PROJECT COMPLETED - The maps received from the Colorado School of Mines cover all coal mining areas of the state, and have been placed in a wall case in this office, readily accessible for observation by the public.

Copies of these maps may be obtained at a minimum charge through the Publications Department of the Foundation Fund at the State School of Mines, Guggenheim Building at Golden, Colorado.

CROMWELL-AWARD FOR HEROISM - Frederick H. Cromwell employed at the Edna Strip Mine operated by the P. & M. Coal Company near Oak Creek, Colorado, received the Joseph A. Holmes Safety Association awards of Gold Medal of Honor and the Certificate of Honor for outstanding heroism from the U.S. Bureau of Mines, Department of the Interior, which were presented by Governor John A. Love in the Governor's chambers on June 25, 1964. In attendance were the Cromwell relatives, representatives of the P. & M. Coal Company from Kansas City, Missouri, Oak Creek and Denver, and members of the federal and state coal mine inspection staffs. This was one of only three hero awards made in 1964 throughout the United States.

On February 5, 1964, a co-worker, Otis Andrew, Jr. was severely burned in attempting to move a can of diesel fuel that was too close to a salamander used for heat to warm the pit employees; the can of oil exploded, covering him with fuel oil and igniting his clothes. Mr. Cromwell prevented him from running....pulled off the burning coat and replaced it with his own in an attempt to smother the fire. Unable to do this, Cromwell sat on him and cut off the burning clothing. Both men suffered from 1st, 2nd and 3rd degree burns. Mr. Andrew returned to work following his hospitalization.

The action by Mr. Cromwell saved the life of Mr. Andrew, and he well deserved the citation for bravery.

NEW BOARD OF EXAMINERS - The following persons were appointed to serve on the State Board of Examiners for Coal Mine Officials until 1968: Robert A. Jackson, E. M., Secretary; Gerald R. Jones of Steamboat Springs; John Sebben of Trinidad; and Frank Bosco of Florence.

STRIP PIT DIRECTIVES - The directives for strip mines which have been under consideration and revision since 1963 were issued in mimeograph form on April 1, 1964, by Chief Inspector Donald Haske.

The committee for regulations consisting of E. E. Quenon of the Peabody Coal Company, Chairman; Lloyd J. Beer, Beer Coal and Construction Co., Fremont County; George Hays, P. & M. Coal Mining Co., Routt County; Joseph F. Lake, Jr., Seneca Coals, Ltd., of Routt County; Miller Spears, Energy Coal Company of Indianapolis, Indiana; and R. T. Eckles, Coordinator of the Division of Natural Resources, approved of this issue with the exception of Article 9, Section 1, relative to high walls and spoil banks - "In an attempt to

see that each operator would regrade in a manner approved by the State Coal Mine Inspection Department, the overburden and other strata removed from the coal, to minimize the hazards of flood, pollutions of streams and total accumulation of stagnant water and the loss of soil for agriculture and grazing purposes; and according to the State Departments of Agriculture, Reclamation and Soil Conservation." - which was amended - "Abandoned strip pits shall be left with the edges of their excavations sufficiently sloped to minimize the danger of persons and stock falling into such excavations." It was generally conceded that this must be left to the voluntary action of each operator, at this time; provided that no hazardous condition exists that endangers the lives of persons or animals. Any further regulations regarding rehabilitation will have to be made by the Federal or State Soil Conservation or Reclamation Departments, if legalized.

These directives have been prepared according to Colorado Revised Statutes by the Legislative Reference Department, for presentation to the State Legislature.

REVISION IN DEPARTMENT FORMS-REPORTS - For clarification and simplicity, all present report forms are being revised for more uniform and informative statistics.

This annual report presents some changes in the type of mining machinery being used at present, and coal mined accordingly.

The inspection report forms now used cover more detailed information as required in the State Coal Mining Laws, and will be retained as a permanent record of the conditions at each mine.

DIRECTIVES OF THE CHIEF INSPECTOR - 1. The use of rigid urethane foam for sealing permanent stoppings is to be confined to mines employing a trained and qualified operator of such equipment. 2. All mines employing three or less men underground, with only a Shot Firer in charge, a daily record of the conditions in the mine must be written in a book provided for that purpose, by the Shot Firer. 3. Strip operators are to report the total number of days of operation each month, including the days worked in removing overburden.

HONOR ROLL FOR 1964 - 50,000 or more man-hours per injury.
(From monthly reports to this office.)

<u>Mine</u>	<u>Company</u>	<u>County</u>	<u>Fatal</u>	<u>Non-Fatal</u>	<u>Man-hours per injury</u>
Dutch Creek	Mid-Continent C. & C.	Pitkin	1	1	139,808
Allen	C. F. & I. Corp.	Las A.	1	6	112,001
Somerset	U. S. Steel Corp.	Gunn.	0	2	100,546
	Western District				
Thompson Crk. #3	Thompson Crk. C. & C.	Pitkin	0	0	58,888
Sterling	McNeil Coal Corp.	Weld	0	1	51,040

HONORABLE MENTION - 20,000 to 50,000 man-hours per injury.

Underground Mines

Thompson Crk. #2	Thompson Crk. C. & C.	Pitkin	0	0	40,536
Washington	Clayton Coal	Weld	0	2	40,235
Red Wing	Colowyo Coal	Moffat	0	0	38,853
Eagle	Imperial Coal	Weld	0	3	35,606
Boulder Valley	Boulder Valley Coal	Weld	0	2	34,783
King	Juanita Coal & Coke	Delta	0	0	24,314
Lincoln	Clayton Coal	Weld	0	2	23,809
Imperial	Imperial Coal	Weld	0	1	22,855

Strip Pits

Edna Strip	P. & M. Coal Mining	Routt	0	2	47,134
Nucla Strip	Peabody Coal	Montrose	0	0	25,259

SUMMARY OF FIELD WORK

Number of inspections	474
Number of check inspections	80
Examinations for Shot Firer	25
Serious accidents investigated	19
Complaints investigated	28
Mines closed for legal violations & non-compliance with recommendations made	10
Suspension of officials' certificates	4
Checks on mine fires - Reoccurrences	9

GENERAL SUMMARY OF COLORADO COAL STATISTICS FOR 1964

MINES REPORTING PRODUCTION		Mechanized - 75	Pick - 16	Strip - 10
PRODUCTION IN SHORT TONS		Increase over 1963 - 693,262		
GRADES	SIZES			
Bituminous	3,535,140	Mine run	1,670,141	Egg
Sub-bituminous	865,562	Slack	1,483,866	Nut
		Pea	943,408	Miscellaneous
		Lump	142,709	
TONNAGE BY MINING METHODS		Underground mines		
MINED BY - Electric cutting machines		973,770		
Solid pick		176,827		
LOADED - Mechanically, using no or very little hand labor		921,417		
Hand-loaded onto mechanical conveyors		177,626		
Hand-loaded into pit cars		51,554		
CUT AND LOADED BY CONTINUOUS MINERS		2,267,363		
STRIPPED - OPEN PITS				
SHIPMENT AND DISPOSAL		982,742		
Shipped by rail		Cameo to Public Service		
Shipped by truck		3,385,580	power plant by conveyors	80,732
Used at mines or stockpiled		890,914	Shipped out of state	1,094,308
MEN EMPLOYED (Average number)		124,208	Stockpile Seneca Strip	36,858
DAYS WORKED (Average number per mine)		Underground - 1,056	Surface - 282	Strip-136
DAILY PRODUCTION PER MINER		Underground - 174	Strip-125	1,474
DAILY CAPACITY OF ALL MINES (as reported)		169		
UNDERGROUND MECHANICAL & ELECTRICAL EQUIPMENT		17.7		
MINING MACHINERY - Electric cutting		33,508		
Combined cutting & shearing		18	Stopers	8
Drills: Electric		191	Compressed air rock drills	2
MECHANICAL CONVEYORS		74	Mainline - Belt	28
Chain: Short face		6	Room length	11
Mobile: Track		2	Shuttle cars	79
Loading machines		127	Continuous miners	27

HAULAGE EQUIPMENT - Locomotives: Electric trolley 69 Electric battery 40

LAMPS: Flame safety 404 Electric hoists 100

STRIP MACHINERY & EQUIPMENT

Bulldozers	17	Drag lines	8	Motor graders	1
Caterpillars	5	Jackhammers	4	Scarifiers	3
Compressors	9	Drills	12	Tractors	3
Loaders	6	Power shovels	8	Trucks to tipple	22
EXPLOSIVES (Pounds)	Permissible	Dynamite	Cardox	Airtox	Others
					Ammonium Nitrate

Underground mines	389, 812	6 Mines	3 Mines		389, 812
Strip mines	7, 567			13, 400	1, 474, 850
Totals	397, 379			13, 400	1, 561, 617
					1, 951, 429

SURFACE & MISCELLANEOUS

Hoists:	Gas	7	Steam	1	Electric	52	60
Tipple:	Gravity	31	Mechanical	53			84
Ventilation fans:	Exhaust	58	Force	23			81
Coal washing plants		4	Steam plants	7	Box car loaders	24	
Pumps:	Electric	196	Compressed air	6	Bath houses	21	Showers 312
Air compressors:	Underground	42	Surface	33	Rock dusting machines		69
Telephones		158	Aerial trams	1	Battery charging stations		30
Gravity planes		2	Underground sub-stations (electric)				31

SAFETY EQUIPMENT

Self-rescuers	437	Oxygen breathing apparatus			31
Inhalators	5	Gas masks	20	Chemox	4

GENERAL INFORMATION

Shaft mines	5	Rock slopes	14	Rock tunnels	3	Drifts	58
Number of Mines:	On railroads	18	Roof-bolted	7	Coal slopes	40	
Tons of coal chemically treated or oiled		518, 994	Tons of washed coal				805, 593

ACCIDENTS - See Page 27

Total number:	Fatalities	3	Dependents:	Wives	2
	Non-fatals	67		Minor children	7

D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
A. B. C. Coal	Walsenburg	Bert's	Same	Huerfano
Alvidrez & Sons	Florence	Black Knight #4	"	Fremont
Annex Coal	"	Annex #2	"	"
Annex Coal	"	Annex #2 Strip	"	"
Baldy Coal	Trinidad	Baldy #2	"	Las A.
Barstow, Aul & Peterson	Palisade	Blue Flame	Same	Mesa
Bear Coal	Somerset	Bear	"	Gunnison
Beer Coal & Const., Inc.	Florence	Beer Strip	"	Fremont
Beer Coal & Const., Inc.	"	Beer Strip #2	"	"
Bendetti, H. & L.	Glenwood Spgs.	New South Canon	"	Garfield
Berwind Coal	Trinidad	Berwind Canyon	Same	Las A.
Bisulco Partners	Aguilar	Bisulco	"	"
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Boulder Valley Coal	Denver (6)	Boulder Valley #3	Dacono	Weld
Bowman Coal	Trinidad	Bowman's	Same	Las A.
Bradley Bros. Ent.	Rifle	Harvey Gap #3	Same	Garfield
Brodhead Coal	Trinidad	Brodhead #4-A	Aguilar	Las A.
C. F. & I. Corp.	Denver (2)	Allen, E. & W. Port.	Weston	"
Can. Blk. Diam. Coal	Florence	Can. Blk. Diam.	Same	Fremont
Canon Liberty Coal	Canon City	Canon Liberty #3	"	"
Canon Monarch Coal	Florence	Canon Monarch #4	Same	Fremont
Canon National Coal	"	Canon National	"	"
Carestia, Ralph	"	Carestia Strip	"	"
Cedar Canon Coal	"	Cedar Canon	"	"
Champion Coal Mng.	Somerset	Hawk's Nest	"	Gunnison
Clayton Coal	Denver (2)	Lincoln	Erie	Weld
Clayton Coal	"	Washington	"	"
Coal Crk. Can. Mng.	Canon City	Coal Creek Canon	Same	Fremont
Colowyo Coal	Denver (2)	Red Wing	Craig	Moffat
Corley Co., The	Colorado Spgs.	Corley Strip	Florence	Fremont

RAILROADS - OPENINGS - SEAMS

Superintendent	R R	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			Depth	Slope	Tunnel				
				Length					
Albert Amiday, Sr.		10		110			2	8	
Casimiro Alvidrez		18					8		2°
Nickie Rocchio, Sr.		50				Yes	5	6	
Nickie Rocchio, Sr.		50	STRIP				5	6	2%
John Hollingsworth		5				Yes	4	6	
Willis S. Barstow		20				Yes	8		3%
William A. Bear D&RG		675			300		8		
Lloyd J. Beer		100	STRIP				3		6%
Lloyd J. Beer		75	STRIP				3		6%
Henry Bendetti		20			30		5		57°
Fred Ortiz		9		200			4		
Sam Gonzales		6				Yes	4		
Mariano Pesina		20		1,000			4		
Thomas Harris U. P.		800	245				6	6	
John Bowman		4				Yes	2	10	
Robert Bradley		20				Yes	7		52°
Sam Vasquez		15					3	10	3%
John Robertson, Jr. C&W		5,000		1,578(E)		Yes (W)	5		2-30%
Frank Yellico		100					6	7	6%
Frank Adamic		25				Yes	3	3	6%
Lloyd J. Beer		150				Yes	5	4	13°
Raymond Jermance		50		1,400			5		
Ralph Carestia		50	STRIP				4	4	5%
Alex Beltramo, Jr.		100				Yes	6	2	2%
Ralph Audin		200		300			7		
William Ferguson U. P.		1,700		1,800			8		
William Ferguson U. P.		1,000	430				8		
John A. Javernick		40				Yes	4	6	6%
Jack V. White, Sr.		900		242			23		3-6%
Thomas E. Shelnutt		250	STRIP				3	7	8%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Corley Co., The	Colorado Spgs.	Pioneer Can. #1	Florence	Fremont
Corley Co., The	"	Pioneer Can. #2	"	"
Delcarbon Coal	Walsenburg	Calumet #2	Same	Huerfano
Double Dick Coal	Florence	Double Dick	"	Fremont
Dry Creek Coal	Hayden	Cardinal	"	Routt
Eagle Head Coal	Grand Jct.	McGinley	Same	Mesa
Ellis Coal	Somerset	Black Beauty	"	Gunnison
Emmons Bros. Coal	Paonia	Emmons	"	Delta
Energy Coal	Indnplow., Ind.	Energy Strip	Stmbt. Spgs.	Routt
Fogg, Lyndon H.	Cedaredge	Red Canon #1	Same	Delta
Fontanari, R. & A.	Clifton	Go-Boy	Same	Mesa
Four Mile Coal, Inc.	Glenwood Spgs.	Four Mile	"	Garfield
Franceville Coal	Colorado Spgs.	Franceville Strip	"	El Paso
Golden Quality Coal	Canon City	Golden Quality #4	"	Fremont
Green Valley Coal	Cedaredge	Green Valley #2	"	Delta
Grey Creek Coal	Trinidad	Grey Creek #4	Same	Las A.
Guadagnoli Bros.	"	Engleville	"	"
Hay Gulch Coal	Hesperus	Hay Gulch #2	"	La Plata
Hay Gulch Coal	"	Hay Gulch #3	"	"
Hayden Coal	Hayden	Babson	"	Routt
Hesperus Coal	Hesperus	Hesperus #4	Same	La Plata
Imperial Coal	Denver (2)	Eagle	Erie	Weld
Imperial Coal	"	Imperial	"	"
Iuppa, Albert & Son	Trinidad	Starkville #4	Same	Las A.
Jenkins & Mathis	Meeker	Rienau	"	Rio Bl.
Juanita Coal & Coke	Bowie	Cameo	Cameo	Mesa
Juanita Coal & Coke	"	King	Same	Delta
King Coal	Hesperus	King	"	La Plata
Last Chance Coal	Canon City	Last Chance	"	Fremont
Lobato, Fidel	Durango	Blue Flame	"	La Plata

Superintendent	RR	Daily Cap.	O P E N I N G S				S E A M		
			Shaft	Rock	Rock	Drift	Ft.	In.	Pitch % - °
			<u>Depth</u>	<u>Slope</u>	<u>Tunnel</u>				
				Length					
Thomas E. Shelnutt		600			300		5		8%
Thomas E. Shelnutt		600				Yes	6		8%
George Sudar	D&RG	150		700			4	2	4%
Joe Rohar		100					6	6	
E. R. Todd		400				Yes	12		7%
Lawrence Downing		16				Yes	11		3%
Ellis Axelson		65				Yes	10	6	
John T. Emmons		30				Yes	9		7%
Gerald R. Jones	D&RG	3,000		STRIP			8		10%
Lyndon H. Fogg		30		350			4	6	6%
R. Fontanari		20				Yes	6		3%
C. A. Betz		20		350			8		42°
L. F. Gordley		25		STRIP			6	8	
Dominic Carestia		65					6	6	3%
D. Gail Brooks		50		250			6		3°
Lawrence Rivera		10				Yes	3	6	3%
Chas. Guadagnoli		10				Yes	9		
Wm. C. Hunt		7				Yes	6	6	10°
Wm. C. Hunt		5				Yes	6		
S. J. Prewitt		15				Yes	10	6	14%
Joe De Luzio		45				Yes	9	1	
Frank Kolar	U. P.	1,500	370				9		1½%
Frank Kolar	U. P.	900	300				10	6	
Albert Iuppa, Jr.		20		300			5		
William Jenkins, Jr.		30				Yes	20		
Royd Jenkins	D&RG	400				Yes	6		3%
Robert F. Bowie	D&RG	300					16		7%
Irvin A. Smith		35				Yes	7		5%
Steve Kopic		40				Yes	5	10	
Fidel Lobato		6				Yes	6	2	2%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Martinez, Albert	Cokedale	Martinez	Same	Las A.
Maschio Coal	Raton, N. Mex.	Hastings #3	Trinidad	"
Mathews, John	Oak Creek	Johnnie's	Same	Routt
McNeil Coal Corp.	Denver (2)	Sterling	Dacono	Weld
Mid-Continent C. & C.	Carbondale	Dutch Creek	Same	Pitkin
Montoya Coal	Trinidad	Aguilar-Imperial	Same	Las A.
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerfano
Moschetti, N. J.	Canon City	Canon Zenith #2	"	Fremont
North Fork Coal	Denver (2)	Edwards	Somerset	Gunnison
Nu-Mine Coal	Gunnison	Nu-Mine #2	Same	"
P & M Coal Mng.	Kansas City, Mo.	Edna Strip	Oak Creek	Routt
Pantazes, Pete	Aguilar	Prosperity #2	Same	Las A.
Peabody Coal	St. Louis, Mo.	Nucla Strip	Nucla	Montrose
Peacock Coal	Hesperus	Peacock	Same	La Plata
Peacock Coal	Trinidad	Peacock	"	Las A.
Pete's Coal	Boncarbo	Pete's	Same	Las A.
Phillips, H. B.	Palisade	Gearhart	"	Mesa
Pilcher, Oren A.	Mancos	Burnwell #1	"	La Plata
Pilcher, Oren A.	"	Burnwell #2	"	"
Pilcher, Oren A.	"	Coal King #2	"	"
Red Ash Coal	Walsenburg	Maitland #2	Same	Huerfano
Reliable Coal & Mng.	Chicago, Ill.	Roadside	Grand Jct.	Mesa
Rex Carbon Fuel	Florence	Rex Carbon	Same	Fremont
Routt Mining Corp.	Oak Creek	Keystone	"	Routt
Seneca Coals, Ltd.	Hayden	Seneca Strip	"	"
Silengo Coal	Craig	Wise Hill #3	Same	Moffat
Skinner Coal	Walsenburg	Gordon	"	Huerfano
Smith, J. M.	Gunnison	Baldwin	"	Gunnison
Sonchar Coal	Raton, N. Mex.	Delagua #4	Delagua	Las A.
Staley-Gordon Coal, Inc.	Rangely	White River	Same	Rio Bl.

Superintendent	RR	Daily Cap.	O P E N I N G S				S E A M		
			Shaft Depth	Rock	Rock	Drift	Ft.	In.	Pitch % - °
				Slope	Tunnel				
				Length					
Albert Martinez		2					3	4	
Adolph J. Maschio		12				Yes	7	3	6-8%
John Mathews		5				Yes	4	4	4½°
A. W. Newcomb	U. P.	550	358				7	11	
Ed Selan		2,000					6	8	14°
Milton Montoya		15				Yes	5	6	
Tony Just	D&RG	175				Yes	4	6	
N. J. Moschetti		15					3	6	6%
Luther Baughman	D&RG	150				Yes	6		
Joseph E. Partch, Sr.		150				Yes	6		3%
George A. Hays	D&RG	3,500		STRIP			6		10%
Pete Pantazes		4				Yes	2	6	7°
A. R. Ross		500		STRIP			5	6	5%
David N. Adair		8				Yes	5	10	3°
Eugene Lopez		25				Yes	6		
Pete Garcia		2				Yes	5	5	
H. B. Phillips		30				Yes	5	3	12%
Oren A. Pilcher		35				Yes	6	6	
Oren A. Pilcher		15				Yes	6	6	
Oren A. Pilcher		10				Yes	6	6	
Clarence Clair		100				Yes	3	6	5%
J. B. Richardson		50				Yes	6	6	5%
Frank Sacchetta		80		300			3	10	12%
Carl Steele	D&RG	50					5	10	
Obie Dilldine		3,000		STRIP			8	6	18%
Charles L. Silengo		300				Yes	16		15%
Frank Zubal	D&RG	50					4		
J. M. Smith		10				Yes	6		
Joe Sonchar, Jr.		50				Yes	5		1%
Conrad Staley		30				Yes	7	10	12%

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Staples, S. L., Jr.	Gunnison	Ohio Creek #2	Same	Gunnison
States Coal	Cedaredge	Top	"	Delta
Sullivan Coal	Oak Creek	Apex #2	"	Routt
Thompson Crk. C&C Corp.	Denver (3)	Thompson Crk. #1	Carbondale	Pitkin
Thompson Crk. C&C Corp.	Denver (3)	Thompson Crk. #2	"	"
Thompson Crk. C&C Corp.	Denver (3)	Thompson Crk. #3	Carbondale	Pitkin
Twin Pines Coal	Canon City	Twin Pines	Same	Fremont
U. S. Steel Corp.	Pittsburgh, Pa	Somerset	Somerset	Gunnison
Western Dist. -Coal				
Vento Coal	Florence	Vento	Same	Fremont
Victory Coal	Hesperus	Victory #3	Same	La Plata
Zellitti, F. Jr., N. & C.	Durango	Morning Star	"	"

Superintendent	RR	Daily Cap.	OPENINGS				SEAM		
			Shaft	Rock	Rock	<u>Drift</u>	<u>Ft.</u>	<u>In.</u>	<u>Pitch</u> ° -
			<u>Depth</u>	<u>Slope</u>	<u>Tunnel</u> Length				
S. L. Staples, Jr.		9				Yes	5		5°
Welland W. States		60				Yes	6		6°
B. E. Sullivan		4				Yes	5		5°
Andrew Allan		400				Yes	8		30°
Andrew Allan		150				Yes	7		30°
Andrew Allan		250				Yes	9		30°
Budgie C. Fazzino		70				Yes	5	6	4°
A. M. Morrison	D&RG	1,494				(B-25			
						(C- 7			4-7°
Tony Vento		150				Yes	5	8	7°
Joe DeLuzio		30				Yes	7		
Frank Zellitti, Jr.		12				Yes	5		10°

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
<u>DELTA</u>						
Emmons	Emmons Brothers Coal	5	142	4,581		1
Green Valley #2	Green Valley Coal	5	198	7,482		
King	Juanita Coal & Coke	18	163	43,723		
Red Canon #1	Lyndon H. Fogg	3	221	5,200		
Top	States Coal	3	135	1,590		
<u>TOTALS (5)</u>		34	859	62,576	-	1
<u>EL PASO</u>						
Franceville Strip	Franceville Coal	2	75	1,141		
<u>TOTALS (1)</u>		2	75	1,141	-	-
<u>FREMONT</u>						
Annex #2	Annex Coal	3	59	3,158		1
Annex #2 Strip	Annex Coal	3	164	11,024		
Beer Strip (Clsd.)	Beer Coal & Const., Inc.	3	116	6,862		
Beer Strip #2	Beer Coal & Const., Inc.	3	96	8,183		
Black Knight #4	Alvidrez & Sons Coal	3	277	7,469		
Canon Black Diamond	Canon Black Diamond Coal	6	242	30,982		
Canon Liberty #3	Canon Liberty Coal	4	276	6,736		2
Canon Monarch #4	Canon Monarch Coal	6	219	18,343		
Canon National	Canon National Coal	2	170	6,804		
Canon Zenith #2	N. J. Moschetti	3	219	3,832		
Carestia Strip	Ralph Carestia	2	29	1,255		1
Cedar Canon	Cedar Canon Coal	5	244	12,026		
Coal Creek Canon	Coal Creek Canon Mining	4	209	6,333		1
Corley Strip	The Corley Company	7	28	7,686		
Double Dick	Double Dick Coal	4	205	9,005		1

Golden Quality #4	Golden Quality Coal	3	259	16,930	
Last Chance	Last Chance Coal	4	243	11,358	
Pioneer Canon #1	The Corley Company	18	41	10,408	2
Pioneer Canon #2 (Clsd.)	The Corley Company	17	147	63,949	2
Rex Carbon	Rex Carbon Fuel	6	211	13,665	1
Twin Pines	Twin Pines Coal	5	249	17,268	
Vento	Vento Coal	7	238	19,460	2
TOTALS (22)		118	3,941	292,736	13
<u>GARFIELD</u>					
Four Mile	Four Mile Coal, Inc.	2	256	3,061	
Harvey Gap #3	Bradley Bros. Enterprise	3	180	1,212	1
New South Canon	H. & L. Bendetti	4	270	3,961	
TOTALS (3)		9	706	8,234	1
<u>GUNNISON</u>					
Baldwin	J. M. Smith	2	214	2,103	
Bear	Bear Coal	26	163	87,310	2
Black Beauty	Ellis Coal	6	220	13,156	1
Edwards	North Fork Coal	10	51	7,027	2
Hawk's Nest	Champion Coal Mining	14	152	26,455	
Nu-Mine #2	Nu-Mine Coal	8	218	15,415	2
Ohio Creek #2 (Clsd.)	S. L. Staples, Jr.	2	117	1,196	
Somerset	U.S. Steel Corp.,				
	Western District - Coal	118	215	310,745	2
TOTALS (8)		186	1,350	463,407	9
<u>HUERFANO</u>					
Bert's	A. B. C. Coal	2	63	576	
Black Beauty (Clsd.)	Black Beauty Coal	2	25	200	
Calumet #2	Delcarbon Coal	17	207	19,256	2
Gordon	Skinner Coal	6	205	5,946	1
Maitland #2	Red Ash Coal	12	220	17,245	1
Morning Glory	Morning Glory Coal	6	193	7,528	1
TOTALS (6)		45	913	50,751	5

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
LA PLATA						
Blue Flame	Fidel Lobato	2	141	987		
Burnwell #1	Oren A. Pilcher	4	220	6,207		1
Burnwell #2	Oren A. Pilcher	3	145	2,079		
Coal King #2	Oren A. Pilcher	2	4	56		
Hay Gulch #2 (Clisd.)	Hay Gulch Coal	1	133	532		
Hay Gulch #3	Hay Gulch Coal	1	64	123		
Hesperus #4	Hesperus Coal	3	48	743		
King	King Coal	5	213	7,477		
Morning Star	F. Jr., N. & C. Zellitti	2	185	1,243		1
Peacock	Peacock Coal	1	207	1,849		
Victory #3	Victory Coal	5	259	7,927		1
TOTALS (11)		29	1,619	29,223	-	3
LAS ANIMAS						
Aguilar-Imperial	Montoya Coal	3	91	1,181		
Allen	C. F. & I. Corporation	381	234	777,496	1	6
Baldy #2	Baldy Coal	2	5	30		
Berwind Canyon	Berwind Coal	2	239	2,541		
Bisulco	Bisulco Mine Partners	2	44	266		
Bowman's	Bowman Coal	2	64	221		
Broadhead #4-A	Broadhead Coal	2	236	1,592		1
Delagua #4	Sonchar Coal	7	146	5,677		
Engleville	Guadagnoli Brothers	2	228	2,225		
Grey Creek #4	Grey Creek Coal	3	154	1,200		1
Hastings #3	Maschio Coal	4	253	3,536		
Martinez	Albert Martinez	1	33	62		
Peacock	Peacock Coal	2	252	3,611		
Pete's	Pete's Coal	1	102	229		
Prosperity #2	Pete Pantazes	3	221	857		
Starkville #4	Albert Iuppa & Son Coal	3	194	3,701		
TOTALS (16)		420	2,496	804,425	1	8

MESA	Barstow, Aul & Peterson	3	238	2,934	1	
Blue Flame	Juanita Coal & Coke	27	239	80,797		1
Cameo	H. B. Phillips	5	100	2,960		1
Gearhart	Rudolph & Alta Fontanari	3	189	3,727		
Go-Boy	Eagle Head Coal	3	153	2,359		
McGinley	Reliable Coal & Mining	2	148	896		
Roadside (Supancic)		43	1,067	93,673	1	2
TOTALS (6)						
MOFFAT						
Red Wing	Colowyo Coal	24	165	107,035		
Wise Hill #3	Silengo Coal	6	247	68,437		
TOTALS (2)		30	412	175,472	-	-
MONTROSE						
Nucla Strip	Peabody Coal	14	225	90,214		
TOTALS (1)		14	225	90,214	-	-
PITKIN						
Dutch Creek	Mid-Continent Coal & Coke	92	256	508,486	1	1
Thompson Creek #1	Thompson Creek C. & C. Corp.	42	248	66,566		7
Thompson Creek #2	Thompson Creek C. & C. Corp.	21	247	25,769		
Thompson Creek #3	Thomspon Creek C. & C. Corp.	30	248	56,187		
TOTALS (4)		185	999	657,008	1	8
RIO BLANCO						
Rienau	Jenkins & Mathis Coal	2	228	4,065		
White River	Staley-Gordon Coal, Inc.	3	148	3,152		
TOTALS (2)		5	376	7,217	-	-

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
<u>ROUTT</u>						
Apex #2	Sullivan Coal	1	23	45		
Babson (Clstd.)	Hayden Coal	3	47	556		
Cardinal	Dry Creek Coal	12	151	37,584		3
Edna Strip	P. & M. Coal Mining	57	207	461,304		2
Energy Strip	Energy Coal	28	257	358,215		
Johnnie's	John Mathews	2	63	366		
Keystone	Routt Mining Corp.	5	156	4,247		1
Seneca Strip	Seneca Coals, Ltd.	17	50	36,858		
<u>TOTALS (8)</u>		125	954	899,175	-	6
<u>WELD</u>						
Boulder Valley #3	Boulder Valley Coal	35	219	118,672		2
Eagle	Imperial Coal	66	201	243,862		3
Imperial	Imperial Coal	19	111	46,437		1
Lincoln	Clayton Coal	37	149	121,960		2
Sterling	McNeil Coal Corp.	25	222	77,096		1
Washington	Clayton Coal	47	211	157,423		2
<u>TOTALS (6)</u>		229	1,113	765,450	-	11
<u>GRAND TOTALS -</u>						
101 Mines		1,474	17,105	4,400,702	3	67

COAL PRODUCTION FROM 1864 THROUGH 1964

<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>
1864	500	1898	4, 174, 037	1932	6, 616, 525
1865	1, 200	1899	4, 826, 939	1933	5, 284, 872
1866	6, 400	1900	5, 495, 734	1934	5, 251, 003
1867	17, 000	1901	6, 021, 405	1935	5, 953, 601
1868	10, 500	1902	7, 522, 923	1936	6, 868, 801
1869	8, 000	1903	7, 775, 302	1937	7, 222, 092
1870	4, 500	1904	6, 776, 551	1938	5, 730, 291
1871	15, 600	1905	8, 989, 631	1939	6, 002, 125
1872	68, 540	1906	10, 308, 421	1940	6, 673, 359
1873	69, 997	1907	10, 965, 640	1941	7, 008, 037
1874	77, 372	1908	9, 773, 007	1942	8, 131, 764
1875	95, 838	1909	10, 722, 490	1943	8, 372, 683
1876	117, 666	1910	12, 104, 887	1944	8, 202, 401
1877	160, 000	1911	10, 197, 595	1945	7, 656, 612
1878	200, 630	1912	11, 016, 948	1946	5, 928, 823
1879	322, 732	1913	9, 268, 939	1947	6, 381, 016
1880	375, 000	1914	8, 201, 423	1948	5, 682, 512
1881	706, 744	1915	8, 715, 397	1949	4, 578, 170
1882	1, 161, 479	1916	10, 522, 185	1950	4, 274, 887
1883	1, 220, 593	1917	12, 515, 305	1951	4, 111, 945
1884	1, 130, 024	1918	12, 658, 055	1952	3, 643, 523
1885	1, 398, 796	1919	10, 406, 543	1953	3, 598, 867
1886	1, 436, 211	1920	12, 514, 693	1954	2, 922, 365
1887	1, 791, 735	1921	9, 141, 947	1955	3, 366, 490
1888	2, 185, 477	1922	10, 003, 610	1956	3, 303, 661
1889	2, 400, 629	1923	10, 336, 735	1957	3, 324, 787
1890	3, 075, 781	1924	10, 501, 088	1958	2, 972, 191
1891	3, 512, 632	1925	10, 440, 387	1959	3, 293, 686
1892	3, 771, 234	1926	10, 616, 760	1960	3, 624, 572
1893	3, 947, 056	1927	9, 781, 580	1961	3, 700, 692
1894	3, 021, 028	1928	9, 921, 585	1962	3, 392, 570
1895	3, 339, 495	1929	9, 934, 064	1963	3, 707, 440
1896	3, 371, 633	1930	8, 238, 094	1964	4, 400, 702
1897	3, 565, 660	1931	6, 604, 063		

COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK	AT MINE	OUT OF STATE	CHEM. TREATED
Delta	28, 864	33, 064	648	11, 256	8, 855
El Paso	-	1, 141	-	-	500
Fremont	6, 340	286, 376	20	3, 596	5, 692
Garfield	-	8, 234	-	-	5, 333
Gunnison	411, 416	51, 884	107	343, 038	348, 023
Huerfano	2, 318	48, 433	-	15, 319	6, 753
La Plata	-	29, 213	10	50	2, 100
Las Animas	776, 280	26, 899	1, 246	3, 708	250
Mesa	-	12, 893	*80, 732	-	-
Moffat	160, 295	15, 177	-	-	55, 540
Montrose	-	90, 214	-	-	-
Pitkin	657, 008	-	-	657, 008	-
Rio Blanco	-	7, 212	5	2, 500	5, 500
Routt	826, 039	36, 253	**36, 858	57, 833	64, 443
Weld	517, 020	243, 921	4, 509	-	16, 005
TOTALS	3, 385, 580	890, 914	124, 208	1, 094, 308	518, 994

*Public Service Power Plant from Cameo, by conveyor - 80,732

**Stockpile - Seneca Strip - 36,858

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
11,745	7,407	24	1,073	1,830	3,136	37,361
1,141	-	-	-	-	-	-
95,198	27,443	1	5,037	8,300	9,294	147,463
-	1,257	-	330	138	579	5,930
326,479	18,079	-	-	3,938	75,468	39,443
208	6,862	8,102	-	2,066	9,009	24,504
14,048	4,870	-	582	207	3,761	5,755
2,316	4,440	-	33	-	777,493	20,143
-	2,047	-	-	614	11	91,001
68,437	8,014	-	-	14,485	-	84,536
90,214	-	-	-	-	-	-
657,008	-	-	-	-	-	-
-	659	-	-	414	-	6,144
403,347	16,375	-	23,969	8,423	54,118	392,943
-	45,256	80,361	-	651	10,539	628,643
1,670,141	142,709	88,488	31,024	41,066	943,408	1,483,866

MECHANICAL LOADING

COUNTY	Shakers	MECHANICAL CONVEYORS					Loading Machines	Continuous Miners	TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor)
		Chain		Main- line	Mobile				
		Short Face	Room Length	Belt	Track	Shuttle Cars			
Delta	4	-	1	-	2	5	2	-	62,136
El Paso	-	-	-	-	-	-	-	-	-
Fremont	13	1	1	-	-	19	18	1	230,228
Garfield	-	-	1	-	-	-	-	-	-
Gunnison	3	-	1	3	-	12	17	1	326,177
Huerfano	14	1	3	-	-	-	-	-	44,029
La Plata	3	-	-	-	-	3	2	-	15,404
Las Animas	1	-	-	12	-	10	34	7	-
Mesa	8	-	-	-	-	4	5	-	83,437
Moffat	-	-	-	2	-	4	6	1	107,035
Montrose	-	-	-	-	-	-	-	-	-
Pitkin	22	4	4	7	-	4	8	4	-
Rio Blanco	2	-	-	-	-	3	4	-	7,217
Routt	1	-	-	2	-	4	4	-	42,387
Weld	3	-	-	2	-	11	27	13	3,367
TOTALS	74	6	11	28	2	79	127	27	921,417

Tonnage mined and loaded by continuous miners - 2,267,363

COLORADO - 1964

TONS OF COAL HAND-LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY				TOTAL TONNAGE
	Cutting	Combination Cutting and Electric Shearing	Electric Drills	Compressed Air Rock Drills & Stopers	
-	7	2	11	-	62,576
-	-	-	-	-	1,141
10,568	31	3	30	-	292,736
1,212	-	-	5	-	8,234
-	22	1	22	2	463,407
6,522	25	-	15	-	50,751
-	15	-	12	-	29,223
1,181	4	5	15	8	804,425
9,621	21	3	17	-	93,673
-	-	1	1	-	175,472
-	-	-	-	-	90,214
148,522	-	-	30	-	657,008
-	5	1	6	-	7,217
-	10	1	15	-	899,175
-	5	1	12	-	765,450
177,626	146	18	191	10	4,400,702

Successful Candidates in Examination for Coal Mine Officials

December 5, 1964

<u>Mine Foreman</u>	<u>Fire Boss</u>	<u>Additional rating after Fire Boss Experience</u>
Johnson, Lawrence A.	Anderson, Boyd J.	Mine Foreman
	Anderson, Glen J.	
	Brady, Grant Reese	Mine Foreman
	Cobb, Carlin G.	Assistant Mine Foreman
	Davis, Leonard A.	Assistant Mine Foreman
	Diamanti, Jim G.	Mine Foreman
	Gettler, Henry M.	
	Godeski, John	Mine Foreman
	Halsey, Onnie Lee	Mine Foreman
	Hyatt, Garth D.	Mine Foreman
	Jensen, Val	Mine Foreman
	Malensek, Rudolph L.	Mine Foreman
	Plum, Robert L.	Assistant Mine Foreman
	Richardson, Chas. H.	Mine Foreman
	Savoni, Julio	Mine Foreman
	St. Clair, Paul G.	Mine Foreman
	St. Louis, Eurin G.	Assistant Mine Foreman

Strip Pit Mine Foreman

Dilldine, Obie E.
Parker, Jimmy W.

BOARD OF EXAMINERS

Donald Haske, Chief Inspector
Robert A. Jackson, E.M., Secretary
Frank Bosco
Gerald R. Jones
John Sebben

FATAL ACCIDENTS

Date	Name	Mine	County	Cause	Occupation	Age	Exp.
3-2	Orie C. Hartgraves	Cameo	Mesa	Roof Fall	Shuttle car operator	49	23
3-18	Richard Borroel	Dutch Creek	Pitkin	Roof Fall	Helper-Cont. Miner	27	3½ Mo.
6-3	Anthony Ibanez	Allen	Las A.	Machinery	Shuttle car operator	38	19 1/4

NOT CHARGED TO THE INDUSTRY

10-29	Shirl Prewitt	Babson	Routt	Heart	Operator	66	48
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FOUR YEAR COMPARISON

NON-FATALS					FATALS			
1961	1962	1963	1964	Causes of Injury	1961	1962	1963	1964
11	18	16	18	Falls of roof	1	2		2
7	2	2	8	Fall of face or rib				
13	2	3	2	Falling objects				
7	4	6	1	Falls of persons				
17	11	12	7	Handling materials				
1	3	3	5	Hand tools				
1		2		Striking vs. objects				
2	15	13	12	Haulage	2	1	1	
1		4		Explosion of gas				
1				Explosives				
2	1			Electricity				
6	13	8	8	Machinery	2			1
7	2	1	3	Jack pipes				
			1	RR cars				
	3		2	Others				
76	74	70	67	Totals	5	3	1	3

ACCIDENT STATISTICS

	Fatalities		Non-Fatals	
	1963	1964	1963	1964
Fatalities	1	3		
Non-Fatals/Compensable			70	67
Per 1,000 Employed	0.718	2.04	50.25	45.45
Men employed per injury	1,393	491	19.90	22
Tonnage per injury	3,707,440	1,366,901	52,963	65,682
Per million tons	.269	.682	1.88	1.52
Dependents: Widows	1	2		
Children(Minors)	5	7		

FINANCIAL STATEMENT FOR CALENDAR YEAR

1964

RECEIPTS

Coal Tax	\$29,126.88
License Fees	3,970.00
Law Books Sold	29.50
Misc. - Including sale of old Equipment	348.92
General Fund Appropriation	<u>40,415.05</u>

Total	\$73,890.35
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EXPENDITURES

Salaries - Field & Office	\$55,748.42
Travel - Hotels, Meals, Gasoline, etc.	5,106.46
Equipment - Field & Office	2,176.10
Workmen's Compensation	1,852.00
Telephone & Telegraph	489.84
Supplies - Field & Office	463.38
Postage	417.91
Printing	283.00
Garage Rent - Field & Office	221.10
Insurance - Cars & Equipment	150.27
Surety Bonds	127.50
Maintenance & Repair of Equipment	91.21
Misc. - Blue Prints & Subscription	13.16
Map Project	<u>6,750.00</u>

Total	\$73,890.35
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COAL PRODUCTION AND VALUES BY COUNTY FOR 1964

COKING, BITUMINOUS & SUB-BITUMINOUS COALS

<u>COUNTY</u>	<u>TONNAGE</u>	<u>VALUATION</u>
Delta	62, 576	\$ 317, 886
El Paso	1, 141	5, 796
Fremont	292, 736	1, 487, 099
Garfield	8, 234	41, 829
Gunnison	463, 407	2, 354, 108
Huerfano	50, 751	257, 815
La Plata	29, 223	148, 453
Las Animas	804, 425	4, 086, 479
Mesa	93, 673	475, 859
Moffat	175, 472	891, 398
Montrose	90, 214	458, 287
Pitkin	657, 008	3, 337, 600
Rio Blanco	7, 217	36, 662
Routt	899, 175	4, 567, 809
Weld	765, 450	<u>3, 888, 486</u>
GRAND TOTAL OF STATE		\$22, 355, 566

Valuation figures from the Department of Natural Resources of the United States Bureau of Mines, were based on the average value per ton of all coal mined.

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